

ABSTRACT: A combination of SAGD with cogeneration technology for exploiting shallow heavy oil and bitumen reservoirs under primary, secondary and tertiary thermal recovery. Superheated steam is generated by the heat recovery from the exhaust of an above-ground hydrocarbon powered turbine driven electric generator cogeneration plant and is injected through well bores into the hydrocarbon bearing reservoir that is traversed by at least one horizontal producing well bore and one injection well bore to heat the reservoir formation and to induce gravity drainage of the hydrocarbons and allowing their recovery from the horizontal producing well bore. Electrical power that is generated is sold to the electric grid and can be used to offset the fuel costs for the above ground hydrocarbon turbine-driven elector generators.